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TITLE: "Irrigation scheduling, freeze warning and soil salinity detecting"

NUMBER OF INVESTIGATION: Skylab EREP No. 356-1

CONTRACT NUMBER: T-4105B

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STATEMENT OF PROGRESS:

The following data have been delivered to Weslaco in support of the investigation since July 1:

Data Book for S 191, passes 53 and 94.

Cameron County

The following ground truth data have been organized and tabulated since the last report: (1) electrical conductivity measurements of soil salinity on 76 samples from the 0- to 12-inch depth, (2) electrical conductivity measurements of soil salinity on 76 samples from the 12- to 24-inch depth, (3) particle size distribution of 76 samples from the 0- to 6-inch depth. The responses of 40 field spectroradiometer spectra, for 76 samples from the 0- to 6-inch depth, have been read from X-Y strip charts for several wavelengths.

Starr County

The responses of 7 field spectroradiometric spectra, for the 7 soil types (Catarina, Copita, Garceno, Maverick, Montell, Ramadero, and Zapata), have been read from X-Y strip charts for several wavelengths. Electrical conductivity and particle size distribution measurements have been completed, organized, and tabulated. Work is continuing on relating film densities of EREP images to characteristics of 7 range sites.

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FREEZE

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